



**Terry Tamminen**  
Agency Secretary

# Air Resources Board

**Alan C. Lloyd, Ph.D.**

**Chairman**

1001 I Street • P.O. Box 2815  
Sacramento, California 95812 • [www.arb.ca.gov](http://www.arb.ca.gov)



**Arnold Schwarzenegger**  
Governor

March 10, 2004

Dear Sir or Madam:

This letter is to invite you to participate in a meeting of the Maritime Air Quality Technical Working Group (MWG). As a reminder, the Maritime Working Group was created to provide a forum for discussion of air quality issues and concerns pertaining to maritime activities in California. During this meeting, we will discuss proposed concepts for reducing emissions from the auxiliary engines used on oceangoing ships. In particular, we will focus on the use of distillate diesel fuel in place of heavy fuel oil. Throughout the meeting, time will be provided for comments and discussion by the audience. A preliminary agenda for this meeting is attached.

We would also like to invite you to a workshop sponsored by the United States Maritime Administration (MARAD) that will be conducted at the same location, and will follow the MWG meeting. As you may know, MARAD has worked in close cooperation with the MWG on marine vessel retrofit and emission testing projects in California. During the workshop, guest speakers will discuss the status of these and other marine projects. A draft agenda for this workshop is enclosed.

The schedule and location for the MWG meeting and MARAD workshop is shown below (directions are enclosed). For those unable to attend these meetings, a live Internet audio broadcast will be available. The broadcast can be accessed on the day of the workshop at <http://www.calepa.ca.gov/broadcast>.

Date: Thursday, April 8, 2004  
Time: MWG Meeting: 10:00 A.M. – 12:30 P.M. (PDT)  
MARAD Workshop: 1:30-4:30 P.M.  
Location: California Environmental Protection Agency Building  
Central Valley Auditorium, Second Floor  
1001 "I" Street  
Sacramento, California 95814

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

Sir or Madam  
March 10, 2004  
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All interested parties are welcome to attend these meetings. It is not necessary to contact us to confirm your attendance. If you did not receive this letter directly, but would like to be on the mailing list for future notification of MWG meetings, please contact Mr. Paul Milkey, Technical Analysis Section, at [pmilkey@arb.ca.gov](mailto:pmilkey@arb.ca.gov) or (916) 327-2957.

This facility is accessible to persons with disabilities. If you need special accommodations to attend this meeting, please contact Ms. Linda Keifer at (916) 327-1505. Persons with hearing or speech impairments can contact us by using our Telephone Device for the Deaf (TDD) at (916) 324-9431, or (800) 700-8326 for TDD calls from outside the Sacramento area.

We welcome your participation in this effort. If you have any questions regarding the meeting, please contact Ms. Peggy Taricco, Manager, Technical Analysis Section, or Mr. Paul Milkey. Peggy can be reached at (916) 327-7213 or via e-mail at [ptaricco@arb.ca.gov](mailto:ptaricco@arb.ca.gov), and Paul can be reached at the number or e-mail address listed above.

Sincerely,

/s/

Daniel E. Donohoue, Chief  
Emissions Assessment Branch

#### Attachments

cc: Ms. Peggy Taricco, Manager  
Technical Analysis Section  
Stationary Source Division

Mr. Paul Milkey  
Staff Air Pollution Specialist  
Stationary Source Division

**Preliminary Agenda**

**Maritime Air Quality Technical Working Group**

**April 8, 2004**

**10:00 A.M. – 12:30 P.M. (PDT)**

**California Environmental Protection Agency (Cal-EPA) Building**

**Central Valley Auditorium, Second Floor**

**1001 "I" Street**

**Sacramento, California 95814**

- I.     Introductory Comments
- II.    Emission Reduction Goals for Oceangoing Ships
  - SIP emission reduction targets
  - Evaluations of shore-side power and other options for auxiliary engines
- III.   Options for Reducing Emissions from Auxiliary Engines on Oceangoing Ships
  - Use of cleaner fuels (e.g. distillate diesel fuel)
  - Shore-side power
  - Retrofit control equipment
- IV.    Discussion of the Use of Distillate Diesel Fuel in Place of Heavy Fuel Oil
  - Draft proposal for discussion
- VI.    Concepts for Providing Flexibility to Industry
  - Alternative Compliance Plans
  - Averaging Provisions
- VII.   Closing Remarks

**----- Lunch Break 12:30 to 1:30 -----**

*MARAD Workshop at 1:30 P.M.  
(See attached agenda)*



**Draft Agenda for the Maritime Administration's  
Shipboard Energy Technologies Workshop**  
To be held in cooperation with the California Air Resources Board  
April 8, 2004, 1:30 – 4:30 p.m.,

**California Environmental Protection Agency Building  
Central Valley Auditorium, Second Floor  
1001 "I" Street  
Sacramento, California 95814**

**Objectives** – Describe the Maritime Administration Energy Technology Program and provide California ship operators with information on potential energy and emission reduction technologies, cost-benefits, and performance verifications. Encourage ship operators to participate in future vessel technology demonstrations and validations.

**Moderator** – Daniel Gore, Maritime Administration

**1:30 – Welcome and Introductions** *Daniel Gore/Air Resources Board*

**1:40 – Maritime Administration Energy Technologies Program** *Daniel Gore*  
(overview, cooperative technology demonstrations, and outreach)

**2:00 – Containership Residual Fuel Emulsification & Homogenization Technology** *Seaworthy Systems*  
(technology description and projected containership cost benefit analyses)

**2:30 – MV CABOT Vessel Combustion Air Fumigation System Retrofit Project** *Transport Canada*  
(overview, technology, test results, preliminary cost benefits, ship/truck emission comparison)

**3:00 – MV SINE MAERSK Emission Measurements & Retrofit Technology Discussion** *MAN B&W*  
(containership emission measurement project overview, status of results, MAN engine retrofit emission control technologies, costs benefits, and willingness for future project participation)

**3:30 – Break**

**3:45 – Development of Large Vessel Emission Measurement Protocol** *University of California Riverside*  
(observed vessel tests, direction and status of protocol development, MV PFEIFFER test coordination, and willingness for future project participation)

**4:15 – Discussion** *All Attendees*  
Potential for future vessel technology demonstrations, cooperative research agreements, standardization of emission measurement procedures, how best to share information and test results, the need for technology incentive and meeting summary.

**4:45 – Adjourn**

## Directions to the Cal/EPA Building 1001 I Street Sacramento, California

### By Air

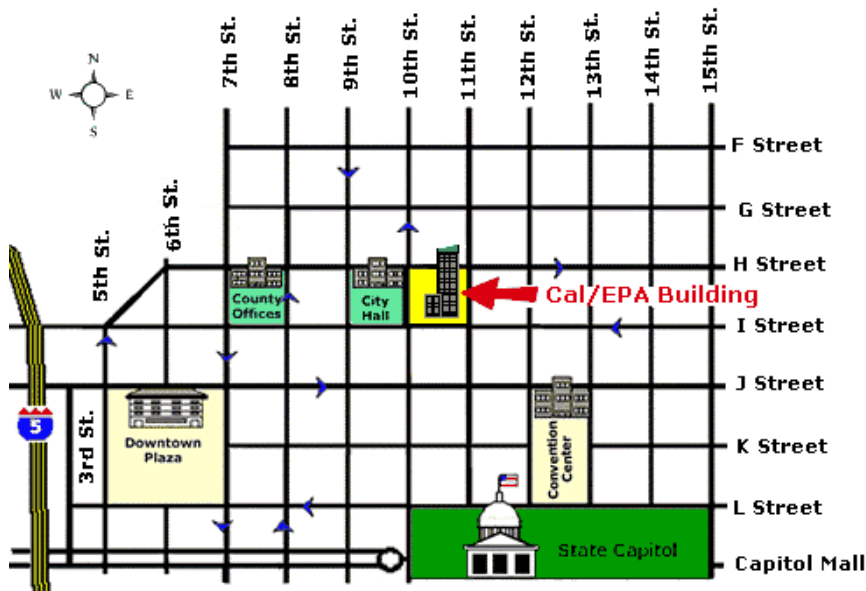
Sacramento International Airport is a 20-minute drive from downtown Sacramento.

YoloBus has a bus route leaving the airport every hour from Terminal A and Terminal B at approximately 10 minutes after the hour from 7 a.m. to 10 p.m. You stand at the Public Transportation Bus Stop. The route takes approximately 18 minutes to get from the airport to 9<sup>th</sup> and K Street. This is 2 blocks from the Cal/EPA building. The return trip from 9th and K Street runs approximately 5 minutes after the hour and takes approximately 20 minutes to arrive at the airport. The cost is \$1.00. 1-800-371-2877.

SuperShuttle Sacramento is another transportation option to and or from the Sacramento Airport. Please provide them with a 24-hour notice to arrange for pick-up service from the Cal/EPA building. (800) 258-3826 or (800) BLUEVAN.

### By Train

The Sacramento Amtrak train station is at 401 I Street and is 6 blocks from the Cal/EPA Headquarters building. The Capital Corridor intercity rail service provides Amtrak train and feeder bus services in Northern California. Multiple daily round-trip trains supported by connecting feeder bus services serve 172-mile rail corridor, including Bay Area airports and BART. (800) 872-7245 or (800) USA-RAIL.



### By Bus or Light Rail

Sacramento Regional Transit offers bus and light rail transit services. The two closest stations are Cathedral Square and at 12<sup>th</sup> and I Streets. Some outlying stations provide free parking. (916) 321-BUSS (2877)

### Parking

Metered Parking (1, 2, and 10-hour meters) is available around the building. Meter parking uses quarters (some meters may use special "debit cards").

Parking lots are also available in several nearby locations. The closest lot is across from the building on 10<sup>th</sup> & I Streets.